

V. A. D. C. G.

Vancouver Amateur Digital Communications Group

818 Rondeau Street, Coquitlam, British Columbia, Canada V3J5Z3

Packet Radio Newsletter

May 1980

The purpose of this newsletter is to keep supporters of the V.A.D.C.G. informed as to current progress and the state of packet radio in this area.

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FIRST PUBLIC DEMONSTRATION

The first public demonstration of the V.A.D.C.G. packet radio system was held on April 26, 1980, at the CARF symposium in New Westminster.

GENERAL MEETING & DEMONSTRATION

The next demonstration will take place at a general meeting that will be open to anyone interested in packet radio.

TIME : 8:00 PM, Wednesday, June 18, 1980

PLACE : Simon Fraser University, Room AQ 5030

This is on the 5th floor, North side, of the main building.

Note that the restricted parking signs are not valid at this time.

MAPLE RIDGE HAMFEST

Plans are now being made to have a display at the Maple Ridge Hamfest, July 5 and 6, 1980.

ARRL CONVENTION

An ARRL Amateur convention is planned for the last weekend of July, 1980, in Seattle, Wash. The possibility of operation from the convention site will be investigated.

CURRENT ACTIVITY

TWO METERS

Present two meter activity is mostly terminal-to-terminal, using AFSK at 1200 baud.

The frequency is 145.65 MHz simplex.

The station node is on at irregular intervals.

Current fund-raising is aimed at obtaining equipment to provide a continuous station node.

HF BEACON

A 20 meter beacon has been operated on 14.0765 MHz.

Transmissions, using HDLC protocol, were 35 seconds every 5 minutes.

The beacon has been heard across Canada and was usually a good signal into Ontario.

The possibility of linking local networks, via HF radio, is being actively investigated and looks promising.

At time of writing, the beacon transmitter is down for repairs.

TERMINAL NODE CONTROLLER

The first run of 25 printed circuit boards, selling for \$30.00 each, is expected to be fully distributed this month. At time of writing, only 3 remained.

These boards are high quality glass, double-sided and through-hole plated.

If you want a board for the Terminal Node Controller, a deposit of \$30.00 will reserve one from the next run, which is yet to be ordered. If the price turns out to be more than \$30.00, you may pay the difference or have your deposit returned.

A full parts kit for the above board (not including the board itself) for serial interface, is available for \$285.00. The kit includes the full 4K of 2708 EPROM and 4K of 2114 RAM, as well as sockets for all ICs, and DB25 connectors.

The software for the terminal node has been tested.

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WHAT DO YOU NEED?

A terminal node will consist of the following:

1. The terminal node board and kit described above.
2. A power supply, providing ± 5 volts and ± 12 volts for item 1.
3. A modem.
4. A 2 meter rig on 145.65 MHz.
5. A serial terminal, such as an ASCII or Baudot teletype, a keyboard and printer, or a computer, using RS232 or 20 mA loop.
Inductive machines should use an opto-isolator.

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WHAT NEXT?

1. Software to control gateways to host computers is under development.
2. Plans are under way to interface the network to a computer, in Washington State, hopefully within the next two months.
3. We are now looking for a suitable repeater site, which would allow coverage to the south.
4. Equipment optimization, to increase throughput on the channel by reducing turnaround time, is now in progress.
5. It should be possible to link the packet radio network to a regular RTTY network. Volunteers are needed to investigate this subject.

6. 220 MHz operation would permit faster data transfer.
Help is needed for the development and/or evaluation of suitable wide-band receiving equipment and transmitters for 220 MHz.
7. A continuously-operating station node would allow the use of the packet radio system by anyone, at any time.
This station will be set up as funds become available.
8. Local 2 meter or 220 MHz packet radio systems, in widely separated areas, could probably be linked via HF radio.
Such a network of systems could conceivably become world-wide.

WHEN

When will all this happen? It depends mostly on how many people want it enough to put in the time, the effort and the money required.

We now know that the system works and we know how much it costs.
What many people may not realize is just how much it can do for them.

If you don't know come to the meeting on June 11 and find out.

If you like what you hear, get involved and help to get the complete system into operation.

If you want to help, call Doug Lockhart at 738-5683.

4/27/80

NAME	ORGANIZATION	STREET	CITY	PCODE	PHONE	SYS	EXPIRY	T	SHORT
A.M.R.A.D.	C/O PAUL RINALDO		MCLEAN VA.			C	AMRA		
CLAYT ANGUISH	VE3LU		BRANTFORD ONT.			\$10	H	ANGU	
STEWART BEAL			BURLINGTON ONT.			\$10	N	BEAL	
DAVID BENNETT	VE7AZG		VANCOUVER B.C.			\$10	H	BENN	
PETER BENNETT	VE7CEI		VANCOUVER B.C.			6880	\$10	H	BERN
MEL BERNSTEIN	VE7CEX		RICHMOND B.C.			8080	\$10	H	BLUM
ROBERT BLUMENKRANZ	VE7AVB							B	BOWM
DAVE BOWMAN									
CALGARY A.R.A.	RTTY CHAPTER		CALGARY ALTA.			\$10	C	CALG	
DAVE CAULKINS	PCNET		LOS ALTOS CA			PET	A	CAUL	
RICHARD CHALK	VE7BUT		COQUITLAM B.C.				H	CHAL	
RICHARD CHYCOSKI	VE7CVS		COQUITLAM B.C.			8080	\$20	HB	CHYC
MICHAEL CONNOLLY	VE3MDC		WILLOWDALE ONT.			\$10	H	CONO	
GEORGE CSERENYI	VE7CIZ		RICHMOND B.C.				B	CSEK	
WILLIAM T. DAVIS	VE7ACJ		BURNABY B.C.				H	DAVI	
FRED DENNERT	VE7APT		PRINCE GEORGE B.C.			\$10	H	DENN	
PETER DRIESSEN	VE7BBQ		VANCOUVER B.C.				H	DRIE	
BOB FINCH	WA7IPX		BELLINGHAM WA.			AM100	B	FINC	
NICHOLAS FONG	VE7BAM		BURNABY B.C.			8085	\$10	H	FONG
BRIAN FOX							B	FOXX	
STEVE GERTSMAN	VE7ZC		RICHMOND B.C.				H	GERT	
MARTIN GUTHRIE	VE3JCU/5		SASKATOON SASK.				GUTH		
OWEN HAWKINS	VE7AIV		RICHMOND B.C.			\$10	HB	HAWK	
HORST HLADIK	VE7AFW		VANCOUVER B.C.				H	HLAD	
BRIAN HYNDMAN			PORT COQUITLAM B.C.			8080	\$10	H	HYND
ALAN JAMISON	VE7BRD		N. VANCOUVER B.C.				H	JAMI	
JIM JOHNSON	VE7CSJ		SURREY B.C.				H	JOHN	
LARRY KAYSER	VE3OB		OTTAWA ONT.				HB	KAYS	

CYRIL KNUDSON	VE7CDL	VANCOUVER B.C.	\$10	HB	KNUD
M. KOOMBEES		VANCOUVER B.C.			H KOOM
ROB KUSE	VE7BKU	VANCOUVER B.C.			H KUSE
ROBERT LIVINGSTON	VE7CYB	VANCOUVER B.C.	\$20	HB	LIVI
DOUGLAS LOCKHART	VE7APU	VANCOUVER B.C.	\$30	HB	LOCK
ALLEN MAR	VE7DEW	BURNABY B.C.	\$10	HB	MARR
BRIAN MCINTOSH		N. VANCOUVER B.C.	\$10		MCIN
RUSSELL MILLAND	VE3FVX	ISLINGTON ONT.	\$10		MILL
TOM MITCHELL	VE7BSE	RICHMOND B.C.			H MITC
PHILIP MONCHAMP		DELTA B.C.	\$10	H	MONC
JOHN NIGHTINGALE	VE7AOV	FARO Y.T.	\$31	B	NIGH
DON OLIVER	VE7AOG	COQUITLAM B.C.	\$30	HB	OLIV
GLENN OLTMAN		BELLINGHAM WA.			OLTM
MAX PIZZOLATO	VE3DNM	HAMILTON ONT.		HB	PIZZ
RICK RICHARDSON	VE7CFX	VANCOUVER B.C.		H	RICH
DOUG RITCHIE		COQUITLAM B.C.		H	RITC
TOM HOBSON		DELTA B.C.		H	ROBE
ROBERT T. ROULEAU	VE2PY	MOUNT ROYAL P.Q.		G	ROUL
GLENN SIMPSON	VE3DSP	HAMILTON ONT.	\$20	H	SIMP
ROBERT SKEGG	VE7AII	VANCOUVER B.C.		H	SKEG
ROBERT SMITS	VE7EMD	HUDSON HOPE B.C.		H	SMIT
JOHN SPRAGGS	VE7ADE	VANCOUVER B.C.	\$21	HB	SPRR
JIM SWETLIKOE	C/O C. PICKERING	CONCORD N.S.W. AUSTRALIA	\$10	H	SWE
TORONTO FM	COMMUNICATIONS SOC. INC.	WILLOWDALE ONT.	\$15	C	TORR
RON VANDERHELM	VE7COR	VANCOUVER B.C.		H	VAN
JOHN VANDENBERG	VE3DVV	MOUNT HOPE ONT	\$10	HB	VAN
IAN WHITE	VE7BDG	PORT COQUITLAM B.C.	\$10	H	WHIT

PACKET

RADIO NETWORK

You are invited to attend a
lecture and demonstration on the

WED. 18th of JUNE , 1980 .

PLACE: ROOM AQ-5030 (main building) SIMON FRASER UNIVERSITY

TIME: 8:00 PM.

DATA MODULATION, TIME-DIVISION MULTIPLEXING,
ASCII CODE, ERROR DETECTION AND CORRECTION,
DATA RATES, BIT-ORIENTED PROTOCOL, NRZI,
BIT INSERTION, SYSTEM SERVICES, NETWORKING,
GATEWAYS, RELAY STATIONS, MESSAGE ROUTING,
TERMINAL NODES, STATION NODES, SELF-CLOCKING,
SYSTEM PROTOCOLS, TRANSPARENT DATA, CODE-
TRANSLATION, DEVICE INTERFACES, etc. etc.

THE VANCOUVER AMATEUR
DIGITAL COMMUNICATIONS
GROUP

(604) 738-5683



(884) 123 2222

ALLEN MAR
VE7DPM

\$10

V5H 3C6

TIME: 10:00 AM

PLACE: ROOM A0-2030 (main building) SIMON FRASER UNIVERSITY

MED: 19 01 01 JUNE 1980

lecture and demonstration on the
you are invited to attend a

BASKET